00862.109205

PATENT APPLICATION

IN	THE	IMITED	STATES	PATENT	AND TR	ADEMARK	OFFICE
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In re A	pplication of:)	Examiner: Not Yet Assigned		
MASA	KAZU MATSUGU)	J		
Applic	ation No.: 10/592,954)	Group Art Unit: 2121		
Int'l Filing Date: March 16, 2005		;			
For:	PARALLEL PULSE SIGNAL PROCESSING APPARATUS, PATTERN RECOGNITION APPARATUS, AND IMAGE INPUT APPARATUS	; ;) ;	March 23, 2007		

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed below and on the attached Form PTO-1449. A copy of each non-U.S. patent document so listed is attached.

- (1) U.S. Patent No. 4,974,169
- (2) U.S. Patent No. 5,179,596
- (3) U.S. Patent No. 5,263,122
- (4) U.S. Patent No. 5,664,065
- (5) U.S. Patent No. 5,704,016
- (6) U.S. Patent No. 6,088,490
- (7) EP 1 262 912 A2

- (8) JP 55-124879
- (9) JP 2679730
- (10) JP 6-83994
- (11) JP 2624143
- (12) JP 7-262157
- (13) JP 7-334478
- (14) JP 8-153148
- (15) JP 2879670
- (16) JP 2-64788
- (17) WO 00/29970
- (18) Fukushima, et al., "Neocognitron: A New Algorithm for Pattern Recognition Tolerant of Deformation and Shifts in Position", Pattern Recognition, Vol. 15, 1982, pp. 455-469.
- (19) Murray, et al., "Pulse-Stream VLSI Neural Networks Mixing Analog and Digital Techniques", IEEE Trans. on Neutral Networks, Vol. 2, 1991, pp. 193-204.
- (20) Eckhorn, et al., "Feature Linking via Synchronization among Distributed Assemblies: Simulation of Results from Cat Visual Cortex", Neural Computation, Vol. 2, 1990, pp. 293-307.
- (21) Broussard, et al., "Physiologically Motivated Image Fusion for Object Detection using a Pulse Coupled Neural Network", IEEE Trans. on Neural Networks, Vol. 10, 1999, pp. 554-563.
- (22) LeCun, et al., "Convolutional Networks for Images, Speech, and Time Series", in Handbook of Brain Theory and Neural Networks (M. Arbib. Ed.), MIT press, 1995, pp. 255-258.
- (23) Daugman, "Complete Discrete 2-D Gabor Transforms by Neural Networks for Image Analysis and Compression", IEEE Trans. on Acoustics, Speech, and Signal Processing", Vol. 36, 1988, pp. 1169-1179.

(24) Indiveri, "A Neuromorphic VLSI Device for Implementing 2-D Selective Attention Systems", IEEE Trans. on Neural Networks, Vol. 12, 2001, pp. 1455-1463.

Document (9) was cited in the specification at page 1. Documents (10) and (16) are believed to belong to the same patent family, respectively, as JP 6-93249 and JP 5-47870, which were also cited in the specification at page 1. Documents (11) to (15) and (18) to (20) were cited in the specification at page 2. Document (8) is believed to belong to the same patent family as JP 60-000712, which is also cited in the specification at page 2. Documents (4) and (21) were cited in the specification at page 3. Document (22) was cited in the specification at page 22, and document (24) was cited in the specification at page 25.

Documents (1) to (3), (5), (7) and (17) were cited in the International Search Report and/or Written Opinion which issued in the corresponding international application. A copy of the International Search Report and a copy of the Written Opinion are enclosed.

Document (6) is believed to correspond to document (15).

In addition, abstracts have been located and are included for each of the non-English language documents.

Inasmuch as this application has not yet received a first Office Action on the merits, it is believed that this Information Disclosure Statement is timely. See 37 C.F.R. § 1.97(b)(3). Accordingly, the Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that this information has been considered by initialing the appropriate portion of Form PTO-1449.

Applicant's undersigned attorney may be reached in our Costa Mesa,

California office by telephone at (714) 540-8700. All correspondence should continue to
be directed to our address given below.

Respectfully submitted,

Michael J. Guzniczak Attorney for Applicant Registration No.: 59,820

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza New York, New York 10112-3800 Facsimile: (212) 218-2200

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FORM PTO 1449 (modified)			ATTY DOCKET NO. 00862.109205	APPLICATION NO. 10/592,954					
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE E			APPLICANT						
LIST OF RE (U:	FERENCES CITED BY FERIO	77 (MASAKAZU MATSUGU						
	9Am	2 6 2007 B	INT'L FILING DATE March 16, 2005	GROUP 2121					
	13	U.S.	S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	THAD DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	4,974,169	11/27/1990	Engel	364	513				
	5,179,596	01/12/1993	Weingard	382	15				
	5,263,122	11/16/1993	Nunally	395	27				
	5,664,065	09/02/1997	Johnson	395	21				
	5,704,016	12/30/1997	Shigematsu, et al.	395	27				
	6,088,490	07/11/2000	lwata, et al.		312				
		FORE	GN PATENT DOCUMENTS	.,-					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT			
	1 262 912 A2	12/04/2002	EP	9909900	989000				
	55-124879	09/26/1980	JP	30000000	000000000	Abstract			
	2679730	08/01/1997	JP	OCERNO CARROL	00000000	Abstract			
	6-83944	03/25/1994	JP	99099999	065065000	Abstract			
	2624143	04/11/1997	JP	ggerrooss	200300300	Abstract			
	07-262157	10/13/1995	JP		and the second	Abstract			
	07-334478	12/22/1995	JP	250000000	***************************************	Abstract			
	08-153148	06/11/1996	JP	possocia	Nanoceso Cons	Abstract			
·	2879670	01/29/1999	JP	0000000	355005005	Abstract			
	2-64788	03/05/1990	JP	90099999	90000000	Abstract			
	WO 00/29970	05/25/2000	PCT	00000	900000				
	OTHE	R DOCUMENT(S) (In	cluding Author, Title, Date, Pertinent Pages, Etc.)						
	Fukushima, et al., "Neocognitron: A New Algorithm for Pattern Recognition Tolerant of Deformation and Shifts in Position", Pattern Recognition, Vol. 15, 1982, pp. 455-469.								
	Murray, et al., "Pulse-Stream VLSI Neural Networks Mixing Analog and Digital Techniques", IEEE Trans. on Neutral Networks, Vol. 2, 1991, pp. 193-204.								
	Eckhorn, et al., "Feature Linking via Synchronization among Distributed Assemblies: Simulation of Results from Cat Visual Cortex", Neural Computation, Vol. 2, 1990, pp. 293-307.								
	Broussard, et al., "Physiologically Motivated Image Fusion for Object Detection using a Pulse Coupled Neural Network", IEEE Trans. on Neural Networks, Vol. 10, 1999, pp. 554-563.								
	LeCun, et al., "Convolutional Networks for Images, Speech, and Time Series", in Handbook of Brain Theory and Neural Networks (M. Arbib. Ed.), MIT press,1995, pp. 255-258.								
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Indiveri, "A Neuromorphic VLSI Device for Implementing 2-D Selective Attention Systems", IEEE Trans. on Neural Networks, Vol. 12, 2001, pp. 1455-1463.									
EYAMINER	/Nathan Brown .lr/	-,	DATE CONSIDERED 03/17/2009)		·			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1

Form #62